The Electronic Structure And Chemistry Of Solids

An Introduction to Electronic Structure Theory Nadia T. Paulsen 2020-09-24 In An Introduction to Electronic Structure Theory, Quantum Information Theory is applied to donor-acceptor systems. Reaction stages and charge-transfer phenomena are described, continuities of probability and phase distributions are explored, and resultant information descriptors combining classical and nonclassical contributions are summarized.The authors describe the most efficient method for studying the electronic structure of solids, the magnetic dilution method, or the study of the magnetic susceptibility of diluted solid solutions of paramagnetic oxides in diamagnetic isomorphous matrices.A review of the mathematical modeling and investigation of the electronic structure of some nanomaterials, composite materials, and graphene is presented using the Parameterized Model number 3 (PM3) semi-empirical method.A basic introduction of electronic structure theory with commonly used notation is provided, as well as its applications for studying the physical properties of materials.Lastly, based on a concept of "different prescription for different correlation", a multireference Brillouin-Wigner perturbation scheme with improved virtual orbitals is presented as an accurate and affordable computational protocol for treating electronic states plagued by quasidegeneracy.

Orbital Approach to the Electronic Structure of Solids Enric Canadell 2012-01-12 This book is aiming at filling the gap between the different languages of the physics and chemistry communities to understand the electronic structure of solids. How structure and properties of solids are related is illustrated by considering in detail a large number of real examples.

Electronic Structure of Alloys, Surfaces and Clusters Abhijit Mookerjee 2002-11-28 Understanding the electronic structure of solids is a basic part of theoretical investigation in physics. Application of investigative techniques requires the solid under investigation to be "periodic." However, this is not always the case. This volume addresses three classes of "non-periodic" solids currently undergoing the most study: alloys, surfaces and clusters. Understanding the electronic structure of these systems is fundamental not only for the basic science, but also constitutes a very important step in various technological aspects, such as tuning their stabilities, chemical and catalytic reactivities and magnetism. Expert practitioners give an up-to-date account of the field with enough detailed background so that even a newcomer can follow the development. The theoretical framework is discussed in addition to the present status of knowledge in the field. Electronic Structure of Alloys, Surfaces and Clusters also includes an extensive bibliography which provides a comprehensive reading list of work on the topic.

Electronic Structure of Materials Adrian P. Sutton 1993-09-30 This book describes the modern real-space approach to electronic structures and properties of crystalline and non-crystalline materials in a form readily accessible to undergraduates in materials science, physics, and chemistry. - ;This book describes the modern real-space approach to electronic structures and properties of crystalline and non-crystalline materials in a form readily accessible to undergraduates in materials science, physics, and chemistry. -

Excited States in Quantum Chemistry Cleanthes A. Nicolaides 2012-12-06 It is undoubtedly true that much of the progress in the quant~m theory of matter is due to the remarkable success of the independent particle model (IPM)--especially in describing ground states. However, the accurate experimental results of the last 10 years or so, on a variety of spectroscopic phenomena and chemical processes which involve the Excited State, and the related failure of the IPM to reproduce accurately--in many cases, even qualitatively--the observed data, have sent to theorists a clear message: There is need to create and/or apply general and useful approaches to the many-electron problem of the excited state which go beyond the IPM, treat electron correlation and relativity and explain or predict all relevant physical or chemical information with consistent accuracy. This book contains articles devoted mainly to some of the most important new developments in Quantum Chemistry concerning the theoretical foundations and the computational implementation of many-body approaches to the quantitative and detailed under standing of the electronic excited states of atoms, molecules and solids. Furthermore, it contains experimental and pheno menological articles on Photoelectron and Auger spectroscopy, Lifetime measurements and Organic Photochemistry. In combination or individually, these articles constitute a good description of some current theoretical and experimental work on the electronic structure and spectroscopy of atoms, molecules, polymers, surfaces, metal oxides and amorphous solids.

Solids and Surfaces Roald Hoffmann 2021-01-29 This unique book shows how chemistry and physics come together in the solid state and on surfaces. Using a lively, graphic, descriptive approach, it teaches chemists the language that is necessary to understand the electronic structure of extended systems. And, at the same time, it demonstrates how a chemical, frontier-orbital, approach to solid state and surface bonding and reactivity may be constructed. The book begins with the language of crystal orbitals, band structures and densities of states. The tools for moving back from the highly delocalized orbitals of the solid are then built up in a transparent manner; they include decompositions of the densities of states and crystal orbital overlap populations. Using these tools, the book shapes a meeting ground between detailed quantum mechanical calculations and a chemical frontier orbital perspec- tive. Applications include a general picture of chemisorption, bond-breaking and making in the solid state, bonding in metals, the electronic structure of selected conducting and supercon- ducting structures, dissociation, migration and coupling on surfaces and the forces controlling deformation of extended systems.

Electronic Structure and the Properties of Solids Walter A. Harrison 2012-03-08 This text offers basic understanding of the electronic structure of covalent and ionic solids, simple metals, transition metals and their compounds; also explains how to calculate dielectric, conducting, bonding properties.

Electronic Structure and Electronic Transitions in Layered Materials V. Grasso 2012-12-06 This new volume in the series Physics and Chemistry of Materials with Layered Structures satisfies the need for a comprehensive review of the progress made in the decade 1972-1982 in the field of the electronic properties of layer compounds. Some recent theoretical and experimental developments are highlighted by authori tative physicists active in current research. The previous books of this series covering similar topics are volumes 3 and 4. The present review is mainly intended to fulfill the gap up to 1982 and part of 1983. I am indebted to all the authors for their friendly co-operation and continuous effort in preparing the contributions in their own fields of competence. I am sure that both the expertise scientists and the beginners in the field of the electronic properties of layered materials will find this book a valuable tool for their research work. Warm thanks are due to Prof. E. Mooser, General Editor of the series, for his constant and authoritative advice. * * * This book has been conceived as a tribute to Prof. Franco Bassani to whom the Italian tradition in the field of layer compounds, as well as in other fields of solid state physics, owes much. The authors of this review have all benefited at some time of their professional life from close cooperation with him. Istituto di Struttura della Materia, VINCENZO GRASSO Universitd di Messina IX V Grasso (ed.). Electronic Structure and Electronic Transitions in Layered Materials. ix.

Atomic and Electronic Structure of Solids Efthimios Kaxiras 2003-01-09 Graduate-level textbook for physicists, chemists and materials scientists.

Theory of Defects in Solids A. M. Stoneham 1985

Modern Electronic Structure Theory D. R. Yarkony 1995 Modern Electronic Structure Theory provides a didactically oriented description of the latest computational techniques in electronic structure theory and their impact in several areas of chemistry. The book is aimed at first year graduate students or college seniors considering graduate study in computational chemistry, or researchers who wish to acquire a wider knowledge of this field.

The Electronic Structure and Chemistry of Solids P. A. Cox 2005

The Electronic Structure and Chemistry of Solids P. A. Cox 1987
Impurity Scattering in Metallic Alloys Joginder Singh Galsin 2012-12-06 Since the introduction of quantum mechanics, the general theory of solid state physics has developed very rapidly. To date, a number of good textbooks on general solid state physics have been written. However, research in solid state physics has become highly specialized and undertaken in narrow fields. There is thus a great need for elementary textbooks that deal in detail with the study of solids in a particular field in order to give students basic knowledge in that field. Metallic solids with an impurity, generally called alloys, are of immense importance from both fundamental and technological points of view. The pioneering work of Bloember gen and Rowland (1953) gave considerable impetus to the study of the electronic structure of metallic alloys. Serious theoretical study in this field started in 1960 and, during the last two decades, considerable success in understanding the electronic structure of simple metal alloys has been achieved. Nonetheless the theoretical study of dilute alloys of transition metals is still in its infancy. At present there are few review articles and original research papers that examine the role of an impurity with respect to the electronic structure and properties of metallic alloys. Because of the absence of an elementary textbook that presents a comprehensive account of different aspects of the electronic structure of metallic alloys, I have written this elementary textbook on the theory of the electronic structure of metallic alloys.
Molecular Electronic-Structure Theory Trygve Helgaker 2014-08-11 Ab initio quantum chemistry has emerged as an important tool in chemical research and is appliced to a wide variety of problems in chemistry and molecular physics. Recent developments of computational methods have enabled previously intractable chemical problems to be solved using rigorous quantum-mechanical methods. This is the first comprehensive, up-to-date and technical work to cover all the important aspects of modern molecular electronic-structure theory. Topics covered in the book include: * Second quantization with spin adaptation * Gaussian basis sets and molecular-integral evaluation * Hartree-Fock theory * Configuration-interaction and multi-configurational self-consistent theory * Coupled-cluster theory for ground and excited states * Perturbation theory for single- and multi-configurational states * Linear-scaling techniques and the fast multipole method * Explicity correlated wave functions * Basis-set convergence and extrapolation * Calibration and benchmarking of computational methods, with applications to moelcular equilibrium structure, atomization energies and reaction enthalpies. Molecular Electronic-Structure Theory makes extensive use of numerical examples, designed to illustrate the strengths and weaknesses of each method treated. In addition, statements about the usefulness and deficiencies of the various methods are supported by actual examples, not just model calculations. Problems and exercises are provided at the end of each chapter, complete with hints and solutions. This book is a must for researchers in the field of quantum chemistry as well as for nonspecialists who wish to acquire a thorough understanding of ab initio molecular electronic-structure theory and its applications to problems in chemistry and physics. It is also highly recommended for the teaching of graduates and advanced undergraduates.
Electronic Structure Methods for Complex Materials Wai-Yim Ching 2012-05-17 Density functional theory (DFT) has blossomed in the past few decades into a powerful tool that is used by experimentalists and theoreticians alike. This book highlights the extensive contributions that the DFT-based OLCAO method has made to progress in this field, and it demonstrates its competitiveness for performing ab initio calculations on large and complex models of practical systems. A brief historical account and introduction to the elements of the theory set the stage for discussions on semiconductors, insulators, crystalline metals and alloys, complex crystals, non-crystalline solids and liquids, microstructure containing systems and those containing impurities, defects, and surfaces, biomolecular systems, and the technique of ab initio core level spectroscopy calculation.
The electronic structure and chemistry of solids Paul Anthony Cox 1987
Electronic Structure Richard M. Martin 2020-08-27 The study of electronic structure of materials is at a momentous stage, with new computational methods and advances in basic theory. Many properties of materials can be determined from the fundamental equations, and electronic structure theory is now an integral part of research in physics, chemistry, materials science and other fields. This book provides a unified exposition of the theory and methods, with emphasis on understanding each essential component. New in the second edition are recent advances in density functional theory, an introduction to Berry phases and topological insulators explained in terms of elementary band theory, and many new examples of applications. Graduate students and research scientists will find careful explanations with references to original papers, pertinent reviews, and accessible books. Each chapter includes a short list of the most relevant works and exercises that reveal salient points and challenge the reader.
Electronic Structure and the Properties of Solids Walter Ashley Harrison 1989
One-Dimensional Organometallic Materials Michael C. Böhm 2012-12-06 This lecture note gives an analysis of electronic structure effects for a new class of molecular solids, i. e. one-dimensional organometal lic systems formed by transition-met. l atoms that are embedded in a matrix of macrocyclic organic ligands. These systems as well as orga nic metals have focused considerable interest due to the potential formation of high-mobility charge carriers. For the present author it is difficult to participate in this restriction on a single physical property (i. e. high electronic conductivities, technical applications, etc.). The lecture note is hopefully a small contribution to enhance the general understanding of certain electronic properties in organo metallic polymers. Those problems have been considered in the first place that seem to form a theoretical deficit in one specific field of solid-state chemistry. For the reader it will become evident that this contribution is a compromise always guided and limited by boundaries: i) An attempt to present problems to a ·chemical· audience which have their roots in solid-state physics. ii) The model calculations are limited by the currently available computational facilities. This ·boundary· implies that the compu tational data a~e subject to severe theoretical approximations. iii) Theorists have often a strong tendency to identify their numeri cal results and models with physical effects. Also this lecture note is not free of this almost universal trend. Nevertheless the author hopes that this text leads to some insight into a rather modern research field. M. e. B6hm I.
Quantum Theory of Real Materials James R. Chelikowsky 1996-02-29 A Festschrift in honor of Professor Marvin L. Cohen This volume is a Festschrift in honor of Professor Marvin L. Cohen. The articles, contributed by leading researchers in condensed matter physics, high-light recent advances in the use of quantum theory to explain and predict properties of real materials. The invention of quantum mechanics in the 1920's provided detailed descriptions of the electronic structure of atoms. However, a similar understanding of solids has been achieved only in the past 30 years, owing to the complex electron-ion and electron electron interactions in these systems. Professor Cohen is a central figure in this achievement. His development of the pseudopotential and total energy methods provided an alternate route using computers for the exploration of solids and new materials even when they have not yet been synthesized. Professor Cohen's contributions to materials theory have been both fundamental and encompassing. The corpus of his work consists of over 500 papers and a textbook. His band structures for semiconductors are used worldwide by researchers in solid state physics and chemistry and by device engineers. Professor Cohen's own use of his theories has resulted in the determination of the electronic structure, optical properties, structural and vibrational properties, and superconducting properties of numerous condensed matter systems including semiconductors, metals, surfaces, interfaces, defects in solids, clusters, and novel materials such as the fullerides and nanotubes.
Electronic structure calculations for solids and molecules Jorge Kohanoff 2006
Quantum Theory of Polymers as Solids Janos J. Ladik 2012-12-06 The goal of this monograph is to summarize the different quantum mechanical methods developed in the last 20 years to treat the electronic structure of polymers. Owing to the nature of the problem, these methods consist of a mixture of quantum-chemical and solid-state physical tech niques. The theory described in Part I treats, besides the Hartree-Fock problem, the· electron correlation, and it has also been developed for disordered polymeric systems. Though for obvious reasons the book could not include all the existing calculations, each new method des cribed is illustrated by a

few applications, with a discussion of the numerical results obtained. Far more details see the Introduction to Part I. The second part contains the theoretical calculation of different properties of polymers based on the methods systematically introduced in the first part. The properties calculated include the electronic and vibrational spectra of polymers, and the computation of their transport, magnetic, and mechanical properties. In cases where reliable ex perimental data are available, the theoretical results are compared with them.

Atomic and Electronic Structure of Solids Efthimios Kaxiras 2003 This text is a modern treatment of the theory of solids dealing with the physics of electron and phonon states in crystals and how they determine the structure and properties of solids. There is also an extensive treatment of defects in solids. A number of modern topics are also explored.

Electronic Structure and Magneto-Optical Properties of Solids Victor Antonov 2006-05-05 The aim of this book is to review recent achievements in thetheoretical investigations of the electronic structure, optical, magneto-optical (MO), and x-ray magnetic circular dichroism (XMCD)properties of compounds and Multilayered structures.Chapter 1 of this book is of an introductory character and presentsthe theoretical foundations of the band theory of solids such as thedensity functional theory for ground state properties of solidsincluding local density approximation (LDA). It also presents somemodifications to the LDA, such as gradient correction, self-interaction correction, LDA+U method, orbital polarizationcorrection, GW approximation, and dynamical mean- field theory. Thedescription of the magneto-optical effects and linear response theoryare also presented.The book describes the MO properties for a number of 3d materials, such as elemental ferromagnetic metals (Fe, Co and Ni) andparamagnetic metals in external magnetic fields (Pd and Pt), someimportant 3d compounds such as XPt3 (X=V, Cr, Mn, Fe and Co), Heusleralloys, chromium spinel chalcogenides, MnB and strongly correlatedmagnetite Fe304. It also describes the recent achievements in both theexperimental and theoretical investigations of the electronicstructure, optical and MO properties of transition metal multilayeredstructures (MLS).The book presents also the MO properties of f band ferromagneticmaterials: Tm, Nd, Sm, Ce and La monochalcogenides, some important Y

Electronic Structure Richard M. Martin 2004-04-08 The study of the electronic structure of materials is at a momentous stage, with the emergence of computational methods and theoretical approaches. Many properties of materials can now be determined directly from the fundamental equations for the electrons, providing insights into critical problems in physics, chemistry, and materials science. This book provides a unified exposition of the basic theory and methods of electronic structure, together with instructive examples of practical computational methods and real-world applications. Appropriate for both graduate students and practising scientists, this book describes the approach most widely used today, density functional theory, with emphasis upon understanding the ideas, practical methods and limitations. Many references are provided to original papers, pertinent reviews, and widely available books. Included in each chapter is a short list of the most relevant references and a set of exercises that reveal salient points and challenge the reader.

Electronic Structure and Electronic Transitions in Layered Materials V Grasso 1986-06-30

Quantum Chemistry of Solids Robert A. Evarestov 2007-08-16 This book delivers a comprehensive account of the main features and possibilities of LCAO methods for the first principles calculations of electronic structure of periodic systems. The first part describes the basic theory underlying the LCAO methods applied to periodic systems and the use of wave-function-based, density-based (DFT) and hybrid hamiltonians. The second part deals with the applications of LCAO methods for calculations of bulk crystal properties.

Elementary Electronic Structure Walter Ashley Harrison 2004 This is a revised edition of the 1999 text on the electronic structure and properties of solids, similar in spirit to the well-known 1980 text Electronic Structure and the Properties of Solids. The revisions include an added chapter on glasses, and rewritten sections on spin-orbit coupling, magnetic alloys, and actinides. The text covers covalent semiconductors, ionic insulators, simple metals, and transition-metal and f-shell-metal systems. It focuses on the most important aspects of each system, making what approximations are necessary in order to proceed analytically and obtain formulae for the properties. Such back-of-the-envelope formulae, which display the dependence of any property on the parameters of the system, are characteristic of Harrison's approach to electronic structure, as is his simple presentation and his provision of all the needed parameters.In spite of the diversity of systems and materials, the approach is systematic and coherent, combining the tight-binding (or atomic) picture with the pseudopotential (or free-electron) picture. This provides parameters ? the empty-core radii as well as the covalent energies ? and conceptual bases for estimating the various properties of all these systems. Extensive tables of parameters and properties are included.The book has been written as a text, with problems at the end of each chapter, and others can readily be generated by asking for estimates of different properties, or different materials, than those treated in the text. In fact, the ease of generating interesting problems reflects the extraordinary utility and simplicity of the methods introduced. Developments since the 1980 publication have made the theory simpler and much more accurate, besides allowing much wider application.

The Electronic Structure of Complex Systems P. Phariseau 2012-12-06 We present here the transcripts of lectures and talks which were delivered at the NATO ADVANCED STUDY INSTITUTE "Electronic Structure of Complex Systems" held at the State University of Ghent, Belgium during the period July 12-23, 1982. The aim of these lectures was to highlight some of the current progress in our understanding of the electronic structure of com plex systems. A massive leap forward is obtained in bandstructure calculations with the advent of linear methods. The bandtheory also profitted tremendously from the recent developments in the density functional theories for the properties of the interacting electron gas in the presence of an external field of ions. The means of per forming fast bandstructure calculations and the confidence in the underlying potential functions have led in the past five years or so to a wealth of investigations into the electronic properties of elemental solids and compounds. The study of the trends of the electronic structure through families of materials provided invalu able insights for the prediction of new materials. The detailed study of the electronic structure of specific solids was not neglected and our present knowledge of d- and f-metals and metal hydrides was reviewed. For those systems we also investi gated the accuracy of the one electron potentials in fine detail and we complemented this with the study of small clusters of atoms where our calculations are amenable to comparison with the frontiers of quantum chemistry calculations.

Electronic Structure Calculations for Solids and Molecules Jorge Jose´ Kohanoff 2014-05-14 This textbook for graduate students in physics and chemistry describes the theoretical approaches and computational techniques for studying the behavior of electrons. The first part covers the theoretical methods, including both density-functional theory and Hartree-Fock theory and the latter part discusses the different computational methods.

Proceedings of the 20th Annual International Symposium on Electronic Structure of Solids, Gaupig, Germany, April 16-20, 1990 Paul Ziesche 1991

Electronic Properties of Solids Using Cluster Methods T.A. Kaplan 2006-04-11 Proceedings of a Summer School at Michigan State University held in East Lansing, Michigan, July 17-19, 1994

Modern Electronic Structure Theory David Yarkony 1995 Modern Electronic Structure Theory provides a didactically oriented description of the latest computational techniques in electronic structure theory and their impact in several areas of chemistry. The book is aimed at first year graduate students or college seniors considering graduate study in computational chemistry, or researchers who wish to acquire a wider knowledge of this field.

Introduction to the Physics of Electrons in Solids Henri Alloul 2010-12-09 This textbook sets out to enable readers to understand fundamental aspects underlying quantum macroscopic phenomena in solids, primarily through the modern experimental techniques and results. The classic independent-electrons approach for describing the electronic structure in terms of energy bands helps explain the occurrence of metals, insulators and semiconductors. It is underlined that superconductivity and magnetism can only be understood by taking into account the interactions between electrons. The text recounts the experimental observations that have revealed the main properties of the superconductors and were essential to track its physical origin. While fundamental concepts are underlined, those which are required to describe the high technology

applications, present or future, are emphasized as well. Problem sets involve experimental approaches and tools which support a practical understanding of the materials and their behaviour.
Interatomic Bonding in Solids Valim Levitin 2014-02-17 The connection between the quantum behavior of the structure elements of a substance and the parameters that determine the macroscopic behavior of materials has a major influence on the properties exhibited by different solids. Although quantum engineering and theory should complement each other, this is not always the case. This book aims to demonstrate how the properties of materials can be derived and predicted from the features of their structural elements, generally electrons. In a sense, electronic structure forms the glue holding solids together and it is central to determining structural, mechanical, chemical, electrical, magnetic, and vibrational properties. The main part of the book is devoted to an overview of the fundamentals of density functional theory and its applications to computational solid-state physics and chemistry. The author shows the technique for construction of models and the computer simulation methods in detail. He considers fundamentals of physical and chemical interatomic bonding in solids and analyzes the predicted theoretical outcome in comparison with experimental data. He applies first-principle simulation methods to predict the properties of transition metals, semiconductors, oxides, solid solutions, and molecular and ionic crystals. Uniquely, he presents novel theories of creep and fatigue that help to anticipate, and prevent, possibly fatal material failures. As a result, readers gain the knowledge and tools to simulate material properties and design materials with desired characteristics. Due to the interdisciplinary nature of the book, it is suitable for a variety of markets from students to engineers and researchers.
Transition Metal Oxides P. A. Cox 2010-08-19 Transition metal oxides form a series of compounds with a uniquely wide range of electronic properties. They have important applications as dielectrics, semiconductors and metals, and as materials for magnetic and optical uses. The discovery of high temperature superconductors has brought the attention of a wide scientific community to this area and has highlighted the problems involved in trying to understand transition metal oxides. The present book is not primarily about Tc superconductors, although their main properties are discussed in the final sections. The main aim is to describe the varied electronic behaviour shown by transition metal oxides, and to discuss the different types of theoretical models that have been proposed to interpret this behaviour.
Electronic Structure Calculations for Solids and Molecules Jorge Kohanoff 2006-06-29 Electronic structure problems are studied in condensed matter physics and theoretical chemistry to provide important insights into the properties of matter. This 2006 graduate textbook describes the main theoretical approaches and computational techniques, from the simplest approximations to the most sophisticated methods. It starts with a detailed description of the various theoretical approaches to calculating the electronic structure of solids and molecules, including density-functional theory and chemical methods based on Hartree-Fock theory. The basic approximations are thoroughly discussed, and an in-depth overview of recent advances and alternative approaches in DFT is given. The second part discusses the different practical methods used to solve the electronic structure problem computationally, for both DFT and Hartree-Fock approaches. Adopting a unique and open approach, this textbook is aimed at graduate students in physics and chemistry, and is intended to improve communication between these communities. It also serves as a reference for researchers entering the field.
Methods of Electronic-Structure Calculations Michael Springborg 2000-07-26 Electronic-structure calculations of the properties of specific materials have become increasingly important over the last 30 years. Although several books on the subject have been published, it is rare to find one that covers in detail both the traditional quantum chemistry and the solid-state physics methods of electronic-structure calculations. This title bridges that gap, focusing equally on both types of method, including density-functional and Hartree-Fock-based approaches. The book is aimed at final-year undergraduate and postgraduate students of both chemistry and of physics. It describes in detail the fundamentals behind the various methods that are used in calculating electronic properties of materials, and that to some extent are commercially available. It should also be of interest to professional scientists working in related theoretical or experimental fields.
Physical Chemistry of Solids H F Franzen 1994-01-19 This book is about the underlying principles of symmetry, thermodynamics and electronic structure that pertain to crystalline solids. After years of teaching graduate students in the areas covered, the author has a good idea of what major notions of group theory and thermodynamics are useful to students of solid state chemistry, and of what fundamental concepts are necessary for a clear understanding. Thus the book deals with lattice symmetry, space groups, reciprocal space, Landau theory, X-ray diffraction, heterogeneous equilibria and simple band theory, in a rigorous and thorough treatment. Contents:IntroductionBravais LatticesSpace Group SymmetryReciprocal SpaceIrreducible Representations of Space GroupsLandau TheoryThermodynamics of Condensed SystemsX-Ray DiffractionSingle Crystal Diffraction, Electronic StructureOrder-Disorder Transitions Readership: Graduate students and solid state chemists. keywords:

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